

# MISSION ANALYSIS

- LOWER STERN GATE
- CONDUCT STERN GATE MARRIAGE
- OFFLOAD TO WELL DECK
- ACCOUNT FOR AMMUNITION
- CAST OFF LCM-8
- TRANSPORT FROM WELLDECK TO AFT MAGAZINE
- ACCOUNT FOR AMMUNITION

# IDENTIFY HAZARDS

- INEXPERIENCED CREW
- ELECTROMAGNETIC RADIATION
- EXPLOSION
- DROPPED AMMUNITION
- INCLEMENT WEATHER
- FIRE
- INCIDENTAL EMERGENCY
- MAN OVERBOARD
- HEAT EXHAUSTION
- LINE HANDLING
- LOSS OF AMMUNITION
- SLIPPERY CONDITIONS
- FATIGUE
- INAPPROPRIATE PPE
- COMMUNICATIONS
- UNAUTHORIZED PERSONNEL

# HAZARD ANALYSIS TOOLS

- “WHAT IF”
- PHA

# PRELIMINARY HAZARD ANALYSIS

## ■ LOWER STERN GATE

- NOT UNDOGGED
- MECHANICAL FAILURE
- OPERATOR ERROR
- POOR TIME MANAGEMENT
- UNQUALIFIED PERSONNEL

# PRELIMINARY HAZARD ANALYSIS

- CONDUCT STERNGATE MARRIAGE
  - NO COMMS WITH LCM-8
  - CRAFTMASTER LOSES CONTROL
  - EXCESSIVE SPEED
  - IMPROPER LINEHANDLING
  - IMPROPER BATTLE DRESS
  - WAVES FROM PASSING CRAFT
  - MAN OVERBOARD

# PRELIMINARY HAZARD ANALYSIS

## ■ OFFLOAD TO WELLDECK

- DROPPED AMMUNITION
- UNQUALIFIED SUPERVISORS
- PERSONAL INJURY
- PPE
- SLIPPERY WELLDECK
- CRAFT SHIFTING WHILE TIED OFF
- MISCOMMUNICATION

# PRELIMINARY HAZARD ANALYSIS

## ■ ACCOUNT FOR AMMUNITION

- MISSING AMMUNITION
- IMPROPER COUNT
- LOSS OF SITUATIONAL AWARENESS
- IMPROPER PAPERWORK

# PRELIMINARY HAZARD ANALYSIS

## ■ CAST OFF LCM-8

- IMPROPER LINE HANDLING
- TRAFFIC IN HARBOR
- MISCOMMUNICATION BTWN WELLDECK & CRAFTMASTER

# PRELIMINARY HAZARD ANALYSIS

- TRANSPORT AMMUNITION FROM WELL DECK TO MAGAZINE
  - LADDER HAZARD (DOMINO EFFECT)
  - FATIGUE
  - DROPPED AMMUNITION
  - PPE
  - IMPROPER MAINTENANCE ON LADDERS
  - UNAUTHORIZED PEOPLE
  - FIRE/IMPORT EMERGENCY
  - UNQUALIFIED SUPERVISORS
  - TEMPERATURE/HEAT
  - MISCOMMUNICATION
  - STOWAGE
  - INOPERATIVE MAGAZINE SPRINKLERS

# PRELIMINARY HAZARD ANALYSIS

- ACCOUNT FOR AMMUNITION
  - MISSING AMMUNITION
  - IMPROPER COUNT
  - LOSS OF SITUATIONAL AWARENESS
  - IMPROPER PAPERWORK

# “WHAT IF” ANALYSIS

- SIGNIFICANT CHANGE IN WEATHER
- THERE IS A DELAY IN LCM-8 ARRIVAL
- THERE IS A HERO VIOLATION
- DROPPED/EXPLODED AMMUNITION
- LOSS OF FIREMAIN
- LOSS OF ELECTRICAL POWER
- NOT ENOUGH PEOPLE FOR WORKING PARTY
- IMPROPERLY PACKAGED AMMUNITION
- THE TWO AMMUNITION COUNTS DON’T MATCH
- MAGAZINES DON’T PASS CERTIFICATION
- EMERGENCY IN ANOTHER SPACE
- BRIEFED ROUTE IS FOULED
- COMMUNICATIONS FAIL

# CONTROLS

HAZARD	CONTROL	RAC
INEXPERIENCED CREW	TRAINING PRIOR TO	2
ELECTROMAGNETIC RADIATION	SET HERO I	3
DROPPED AMMO	TWO-HAND CONTROL	3
INCLEMENT WEATHER	POSTPONE	5
IMPORT EMERGENCY	CONTINGENCY PLAN	4
MAN OVERBOARD	SAFETY OBSERVER	4
HEAT EXHAUSTION/FATIGUE	DRINK WATER, ROTATE PERSONNEL	3
LOSS OF AMMO	TWO-PERSON COUNT	4

# CONTROLS

HAZARD	CONTROL	RAC
SLIPPERY CONDITIONS	PPE, MOVE AT SAFE SPEED	2
COMMUNICATIONS	PERIODIC COMM CHECKS & ALT METHODS	4
UNAUTHORIZED PERSONNEL LINEHANDLING	1MC, SAFETY OBSERVERS ENFORCE SAFETY OBSERVERS, TRAINING	3 3

# MAKE RISK DECISIONS

- HOLD SAFETY BRIEF AND CONDUCT EVOLUTION



# SUPERVISE